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TITLE: Highly reflective biogratings

Detailed Description Text (28):

FIG. 2 is a schematic representation of the process for manufacturing an insoluble support with the diffraction grating design of FIG. 1. One member of the binding pair can be applied to the silicon dioxide surface 20 (Step A) by covalent bonding or adsorption in solution 22 in Step B. For covalent bonding, the surface, after being coated with an aminosilane, can be reacted with the protein.

Detailed Description Text (32):

Non-covalent bonding can be achieved by immersing the surface in an aqueous buffer solution. The buffered binding reagent solution is placed in a container containing the silicon dioxide surface and incubated at room temperature until adsorption occurs, for example for from 0.5 to 18 hours and preferable from 1 to 3 hours, at temperatures of from 4.degree. to 40.degree. C. and preferable from 20.degree. to 26.degree. C. The surface is then rinsed with a buffered saline solution and dried.